

ABSTRACT OF THE DISCLOSURE

[0037] A self-locking chuck for engaging the hollow core of a tubular roll of material includes a center trunnion having a central axis of rotation and a plurality of flat peripheral surfaces. A rotatable cage surrounds the trunnion and has a plurality of apertures in which moveable lug members are loosely retained. Each of the moveable lug members has an outer surface for engaging the inside of the hollow core and an inner arcuate surface defining a radial space opposite each flat peripheral surface portion of the trunnion. A plurality of cylindrical rollers extend through the radial space between each of the moveable lug members and each respective flat peripheral surface. In response to torque applied to the chuck, the cage rotates, forcing the rollers to move along the flat surfaces so as to bear against the inner lug surfaces. This creates a camming action which operates in either direction causing the chuck to self lock by forcing the lugs radially outwardly to engage the inside of a hollow core.